FIRE LOSSES IN BRITISH COLUMBIA IN 1989

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Fire Losses in British Columbia, 1989

Fifty-eight persons died and 387 were injured as a result of 7,280 fires in 1989 that caused a total dollar loss of $181,071,119. Losses for the past ten years are shown below.

Year	Number of Fires	$ Loss (millions)	$Loss (millions) Adjusted By CPI to 1981 Constant $	Number Injured	Number Killed
1989	**7280**	**181.1**	**125.6**	**387**	**58**
1988	7499	119.6	86.6	380	59
1987	7542	117.1	87.9	398	42
1986	7667	109.8	84.9	343	58
1985	8285	131.9	105.3	398	60
1984	7237	108.9	89.7	396	79
1983	7724	131.7	112.9	404	83
1982	7623	157.3	142.3	375	73
1981	7023	115.7	115.7	244	76
1980	7605	108.7	124.2	308	77

Table 1 - Fire Losses in British Columbia, 1980 to 1989.

Although the number of incidents decreased from 1988, the total dollar loss of $181 million for the year is $61.5 million higher than 1988, an increase of 51 per cent. 1989 losses are 48 per cent greater than the average annual loss since 1980. The average loss per fire for the province in 1989 was $24,872 while the average loss in 1988 was $15,953.

There was an average of 2.38 fires for every 1,000 persons in British Columbia, down from 2.51 in 1988.

Fire Fatalities

- Thirty-two men, thirteen women, and thirteen children lost their lives to fire in 1989.
- 34 of the 58 fire fatalities (58.6 per cent) were persons over 60 years of age.
- 9 fire fatalities resulted from careless smoking. Smoking related fire fatalities continued a downward trend established in recent years - 11 in 1988; 15 in 1987; 18 in 1986; 19 in 1985; and 32 in 1984.
- 3 persons died as a result of intentionally set fires.
- 2 persons died in fires started by children playing with matches or cigarette lighters, down from 7 last year but still more than 1987 when no deaths were attributed to this cause.
- 16 persons who died in fires were impaired by alcohol, drugs, or medication.
- 14 persons who died from fire were asleep at the time of the fire, an increase of 4 from 1988. Only 1 death occurred in 1989 among people too young to react, down from eight in 1988.

Residential Fires

Twenty-nine per cent of all fires in 1989 were in one- and two-family dwellings, resulting in a total loss of $45.5 million. This loss is down $2.6 million from 1988, even though the ratio of incidents in this category to total incidents remained the same at 29 per cent. Fires in apartments also remained constant at 7 per cent of total incidents, with dollar losses in this group staying within 1 per cent of 1988 ($9.6 million versus $9.5 million in 1988).

Together, these residential categories accounted for 35 per cent of the total number of fires and 25 per cent of the total dollar loss in the province. This figure reflects a reduction from 1988 of fifteen per cent.

Forty-seven of the fifty-eight fire fatalities, or 81 per cent, occurred in residential fires, including hotels and mobile homes. There were 40 fatalities in one- and two-family dwellings and 7 in apartment buildings. As in the past, most fire fatalities occurred between the hours of 10 P.M. and 8 A.M., with 34 of 40 of the fire deaths in one-and two-family dwellings and all 7 of the deaths in apartment buildings occurring during these hours.

Fifteen of the 40 fire fatalities (38 per cent) in one- and two-family dwellings occurred in homes where no smoke alarm was installed. This is a significant reduction from 1988, when 73 per cent of fatalities in this category (29 of 40) occurred in dwellings with no smoke alarm. An additional ten deaths occurred in homes where the alarm did

	1-& 2 Family Dwelling	Apartment Building	
Total number of fires in property group	**2,083**	**497**	
Cooking fires	**492**	**122**	
As a percentage of all fires in group	23.6	24.5	
As a percentage of total $ loss in property group	11.8	22.8	
Number of fatalities over total in property group	2/40	0/7	
Heating equipment fires	**450**	**19**	
As a percentage of all fires in group	21.6	3.8	*
As a percentage of total $ loss in property group	19.8	2.9	*
Number of fatalities over total in property group	3/40	0/7	
Smoking material fires	**134**	**101**	
As a percentage of all fires in group	6.4	20.3	*
As a percentage of total $ loss in property group	6.7	11.6	*
Number of fatalities over total in property group	7/40	4/7	
Arson fires	**224**	**96**	
As a percentage of all fires in group	10.7	19.3	*
As a percentage of total $ loss in property group	12.3	18.9	*
Number of fatalities over total in property group	2/40	0/7	
Apartment			

Table 2 - Comparison of One- and Two-Family Dwellings and Apartment Fire Incidents.

Igniting Object	Fires	Injuries	Fatalities	Dollar Loss
Central heating unit	46	0	1	1,250,108
Space heater	75	0	1	1,286,725
Fireplace	87	3	0	1,028,552
Masonry chimney	106	1	0	1,327,412
Factory-built metal chimney	61	3	0	1,851,528
Flue connector	15	2	0	515,923
Heating equipment - other	19	0	1	598,398
1989 Total	**409**	**9**	**3**	**7,858,646**
1988 Total (for comparison)	392	5	1	5,010,738

Table 3 - Igniting Objects for Solid-fuel Related Fires in One- and Two-Family Dwellings.

not activate because the battery was either missing or dead. In 5 fatalities it could not be determined if the smoke alarms operated.

The significant differences in fire experience between one- and two-family dwellings and apartment buildings noted in 1988 continued in 1989. Table 2 compares these two categories; the asterisks highlight differences.

Heating equipment fires accounted for 21.6 per cent of all fires in one- and two-family dwellings, but only 3.8 per cent in apartment buildings. Of all heating equipment fires in one- and two family dwellings, 91 per cent involved use of solid fuel. The sources of ignition for these solid-fuel fires are shown above.

Smoker's material accounted for 6.4 per cent of one- and two-family dwelling fires and 20.3 per cent in apartment fires, a relationship that continues from 1988 when the figures were 7.6 per cent and 20.5 per cent.

The **rate of arson** in apartment buildings was 19.3 per cent whereas in one- and two-family dwellings it was 10.7 per cent.

Educational Institutions

The number of incidents involving educational institutions remained the same in 1989 as it was in 1988, with 71 fires producing a loss of $2,687,875. This loss is much greater than that experienced in 1988 ($370,657) but statistically in line with 1987 when losses in this category were $2.8 million. The number of fires in schools peaked in 1979 with 125 incidents that caused a loss of $9.8 million.

Eighty-three per cent of the fire loss in educational institutions was caused by intentionally set fires. This ratio is consistent with previous years.

Automobile Fires

Automobile fires continue to represent a significant component of fires in British Columbia. In 1989 a total of 2,252 automobile fires resulted in a loss of $6.9 million. These fires accounted for 30.9 per cent of fires in the province and 2.2 per cent of total dollar losses.

Large Dollar Loss Fires

There were 46 incidents in which losses were greater than $500,000, up from 21 in this category last year. The largest single loss was $15 million in a Delta sawmill fire. These large loss fires represent about one-half of one per cent of the total number of fires (46 of 7,280) but produced 45 per cent of the total dollar loss. In 1988, this ratio was only 23 per cent.

Act or Omission	Fires	Injured	Dead	$ Loss
Arson for financial gain	9	0	0	216,050
Arson as a cover-up crime	72	1	0	2,765,034
Arson - political, religious motive	8	0	0	700,650
Arson for revenge, spite	33	3	1	565,059
Arson - mental disorder, suicide	20	2	0	333,496
Arson - vandalism, mischief	349	4	0	1,162,392
Arson - intimidation	5	0	0	24,879
Arson - motive unknown/unclassified	333	12	0	420,296
Suspected arson - motive unknown or unclassified	584	15	2	12,171,928
Total	**1,413**	**37**	**3**	**28,359,784**

Table 4 - Breakdown of Arson or Suspected Arson Fires.

Arson

Of the 7,280 fires in 1989, 1,413 of them were arson or suspected arson fires, or 19.4 per cent. The incidence of arson was 17 per cent of the total in 1988, 2.5 per cent less than in 1989. These fires involved 15.7 per cent of the total dollar loss, or $28.4 million. This ratio is generally consistent with 1988 data, where arson fire losses were 20 per cent of the total dollar loss.

The frequency of arson remains heaviest in urban areas; 34 per cent of fires in the City of Vancouver were arson, compared to about 10 per cent in areas outside the Lower Mainland.

According to statistics compiled by the Ministry of the Solicitor General, sixty-six adults and 48 juveniles were charged in arson-related incidents in 1989 and an additional 33 persons were handled by the courts in informal procedures relating to arson charges. These numbers do not include mischief charges which are the result of fires set in abandoned automobiles or in waste receptacles.

Rick Dumala, P. Eng.
Fire Commissioner

Fire Losses in Municipal Areas

Loc. Code	Location	Population	Fires	Injured	Dead	$ Loss	Loss Per Fire	Per Capita Loss	Fires Per 1000 Persons
DAB	Abbotsford	16,544	86	6	1	1,464,578	17,030	88.53	5.20
VAN	Anmore	652	1	0	0	400	400	0.61	1.53
CAR	Armstrong	2,709	8	0	0	291,243	36,405	107.51	2.95
DBU	Burnaby	152,191	270	27	1	4,284,173	15,867	28.15	1.77
VBU	Burns Lake	1,643	6	0	0	6,854,694	1,142,449	4,172.06	3.65
VCA	Cache Creek	1,026	8	0	0	13,201	1,650	12.87	7.80
DCA	Campbell River	19,501	74	7	0	612,437	8,276	31.41	3.79
CCA	Castlegar	6,277	16	0	0	2,365,363	147,835	376.83	2.55
DCE	Central Saanich	12,589	8	2	0	41,409	5,176	3.29	0.64
VCH	Chase	1,966	4	0	0	11,308	2,827	5.75	2.03
VCD	Chetwynd	2,701	5	[illegible]	0	71,266	14,253	26.39	1.85
DCH	Chilliwack	45,643	105	0	1	2,401,403	22,871	52.61	2.30
VCL	Clinton	729	4	0	0	20,500	5,125	28.12	5.49
DCO	Coldstream	7,194	7	0	0	42,651	6,093	5.93	0.97
CCL	Colwood	13,097	19	0	0	177,506	9,342	13.55	1.45
TCO	Comox	7,652	3	0	0	108,969	36,323	14.24	0.39
DCQ	Coquitlam	78,518	120	8	0	992,314	8,269	12.64	1.53
CCO	Courtenay	9,867	32	0	0	190,445	5,951	19.30	3.24
CCR	Cranbrook	15,024	36	1	0	911,107	25,309	60.64	2.40
TCR	Creston	3,865	19	1	0	143,287	7,541	37.07	4.92
VCU	Cumberland	2,037	2	0	0	3,169	1,585	1.56	0.98
CDA	Dawson Creek	10,149	30	5	0	337,001	11,233	33.21	2.96
DDE	Delta	83,467	150	4	0	19,400,310	129,335	232.43	1.80
CDU	Duncan	4,045	13	0	0	164,798	12,677	40.74	3.21
DEL	Elkford	2,876	4	1	1	98,200	24,550	34.14	1.39
CEN	Enderby	1,767	7	0	0	92,914	13,273	52.58	3.96
DES	Esquimalt	16,788	36	3	0	445,427	12,373	26.53	2.14
CFE	Fernie	4,701	9	0	0	103,129	11,459	21.94	1.91
VFO	Fort Nelson	3,311	9	0	0	171,114	19,013	51.68	2.72
VSJ	Fort St. James	1,937	6	0	0	13,950	2,325	7.20	3.10
CJO	Fort St. John	12,660	27	2	0	434,387	16,088	34.31	2.13
VFR	Fruitvale	1,859	14	0	0	33,270	2,376	17.90	7.53
VGL	Gibsons Landing	2,956	4	1	0	11,059	2,765	3.74	1.35
VGO	Gold River	2,008	7	0	0	240,670	34,381	119.86	3.49
TGO	Golden	3,707	10	0	0	471,808	47,181	127.27	2.70
CGF	Grand Forks	3,208	9	0	0	50,401	5,600	15.71	2.81
CGR	Greenwood	771	2	0	0	57,989	28,995	75.21	2.59
VHM	Harrison Hot Springs	688	9	0	0	95,922	10,658	139.42	13.08
VHA	Hazelton	451	3	0	0	51,500	17,167	114.19	6.65
THO	Hope	3,205	8	0	0	117,670	14,709	36.71	2.50
DHO	Houston	3,588	10	0	3	1,704,700	170,470	475.11	2.79
DHH	Hudson's Hope	1,037	2	0	0	60,818	30,409	58.65	1.93
VIN	Invermere	2,021	3	0	0	27,100	9,033	13.41	1.48
CKA	Kamloops	62,261	118	7	1	1,801,155	15,264	28.93	1.90
VKA	Kaslo	839	1	0	0	1,500	1,500	1.79	1.19
CKE	Kelowna	67,026	127	8	1	9,637,912	75,889	143.79	1.89
DKE	Kent	3,911	9	4	0	52,552	5,839	13.44	2.30
VKE	Keremeos	857	4	0	0	209,354	52,339	244.29	4.67
CKI	Kimberley	6,021	8	0	0	13,128	1,641	2.18	1.33

Loc. Code	Location	Population	Fires	Injured	Dead	$ Loss	Loss Per Fire	Per Capita Loss	Fires Per 1000 Persons
DKI	Kitimat	10,442	41	4	1	1,040,001	25,366	99.60	3.93
TLA	Ladysmith	4,618	7	0	1	80,584	11,512	17.45	1.52
VLC	Lake Cowichan	2,046	7	0	1	377,256	53,894	184.39	3.42
CLA	Langley City	17,988	45	5	0	318,124	7,069	17.69	2.50
DLA	Langley District	60,841	146	8	0	2,682,254	18,372	44.09	2.40
VLI	Lillooet	1,720	8	0	0	559,535	69,942	325.31	4.65
VLL	Logan Lake	1,788	8	0	0	67,825	8,478	37.93	4.47
VLU	Lumby	1,143	7	0	0	49,563	7,080	43.36	6.12
VLY	Lytton	351	1	0	0	50	50	0.14	2.85
DMA	Mackenzie	5,488	14	0	0	206,180	14,727	37.57	2.55
DMR	Maple Ridge	44,452	106	6	0	2,792,548	26,345	62.82	2.38
VMA	Masset	1,539	2	1	0	40,000	20,000	25.99	1.30
DMT	Matsqui	59,717	116	5	0	1,417,134	12,217	23.73	1.94
VMB	Mcbride	567	3	0	0	1,395,986	465,329	2,462.06	5.29
CME	Merritt	6,077	7	0	0	39,978	5,711	6.58	1.15
TME	Metchosin	3,967	4	0	0	15,700	3,925	3.96	1.01
VMI	Midway	609	1	0	0	13,607	13,607	22.34	1.64
DMI	Mission	24,651	66	2	3	1,646,261	24,943	66.78	2.68
VNA	Nakusp	1,291	3	0	0	98,000	32,667	75.91	2.32
CNA	Nanaimo	53,788	138	9	1	1,413,814	10,245	26.28	2.57
CNE	Nelson	8,320	16	0	0	243,363	15,210	29.25	1.92
VND	New Denver	542	3	0	0	2,530	843	4.67	5.54
DNH	New Hazelton	806	5	1	0	636,640	127,328	789.88	6.20
CNW	New Westminster	42,721	107	1	0	1,297,149	12,123	30.36	2.50
DNC	North Cowichan	19,656	21	0	1	523,240	24,916	26.62	1.07
DNS	North Saanich	8,324	17	1	0	116,438	6,849	13.99	2.04
CNO	North Vancouver City	38,203	69	3	0	508,188	7,365	13.30	1.81
DNV	North Vancouver Dist.	73,135	98	8	1	2,922,184	29,818	39.96	1.34
DOB	Oak Bay	17,795	24	1	0	321,051	13,377	18.04	1.35
VOL	Oliver	2,003	4	0	0	179,404	44,851	89.57	2.00
VOS	Osoyoos	2,826	6	0	0	73,800	12,300	26.11	2.12
TPA	Parksville	6,519	6	1	0	108,746	18,124	16.68	0.92
DPE	Peachland	3,081	4	0	0	9,553	2,388	3.10	1.30
CPE	Penticton	25,312	40	1	1	478,603	11,965	18.91	1.58
DPI	Pitt Meadows	9,546	16	0	0	288,443	18,028	30.22	1.68
CPA	Port Alberni	17,733	62	1	0	1,391,473	22,443	78.47	3.50
VPO	Port Alice	1,293	5	0	0	104,500	20,900	80.82	3.87
CPC	Port Coquitlam	32,870	61	1	0	359,630	5,896	10.94	1.86
VPD	Port Edward	520	4	2	0	91,800	22,950	176.54	7.69
DPH	Port Hardy	4,885	3	0	0	17,729	5,910	3.63	0.61
VPM	Port McNeill	2,463	3	0	0	34,375	11,458	13.96	1.22
CPO	Port Moody	16,338	14	1	0	1,237,043	88,360	75.72	0.86
DPR	Powell River	12,407	25	2	0	256,126	10,245	20.64	2.01
CPG	Prince George	65,451	174	1	1	1,148,141	6,599	17.54	2.66
CPR	Prince Rupert	15,959	38	7	1	4,005,781	105,415	251.00	2.38
TPR	Princeton	2,693	6	0	0	322,250	53,708	119.66	2.23
VQB	Qualicum Beach	3,838	4	1	0	170,000	42,500	44.29	1.04
CQU	Quesnel	7,941	27	0	0	256,342	9,494	32.28	3.40
CRE	Revelstoke	7,863	23	0	0	405,524	17,631	51.57	2.93
DRI	Richmond	117,773	225	5	5	7,009,505	31,153	59.52	1.91

Loc. Code	Location	Population	Fires	Injured	Dead	$ Loss	Loss Per Fire	Per Capita Loss	Fires Per 1000 Persons
CRO	Rossland	3,443	5	0	0	150,803	30,161	43.80	1.45
DSA	Saanich	89,265	163	12	1	7,188,675	44,102	80.53	1.83
VSA	Salmo	931	1	1	1	12,300	12,300	13.21	1.07
DSM	Salmon Arm	11,296	41	0	1	462,626	11,284	40.95	3.63
VSD	Sayward	410	6	3	0	95,022	15,837	231.76	14.63
VSE	Sechelt	5,228	10	0	0	790,153	79,015	151.14	1.91
TSI	Sidney	9,483	15	1	0	87,469	5,831	9.22	1.58
VSL	Slocan	288	3	0	0	148,275	49,425	514.84	10.42
TSM	Smithers	4,895	22	0	0	129,780	5,899	26.51	4.49
DSP	Spallumcheen	4,446	2	0	0	295,000	147,500	66.35	0.45
DSD	Sparwood	3,760	11	0	0	170,075	15,461	45.23	2.93
DSQ	Squamish	10,892	34	5	0	1,267,967	37,293	116.41	3.12
DST	Stewart	1,167	2	0	0	2,384	1,192	2.04	1.71
DSL	Summerland	8,398	8	0	0	198,799	24,850	23.67	0.95
DSY	Surrey	212,052	453	21	0	10,638,531	23,485	50.17	2.14
VTA	Tahsis	904	2	0	0	18,850	9,425	20.85	2.21
VTR	Taylor	597	6	0	0	75,740	12,623	126.87	10.05
VTE	Telkwa	823	2	0	0	4,500	2,250	5.47	2.43
DTE	Terrace	10,540	19	2	0	220,107	11,585	20.88	1.80
VTO	Tofino	951	1	0	0	8,362	8,362	8.79	1.05
CTR	Trail	7,629	15	0	0	185,108	12,341	24.26	1.97
DTU	Tumbler Ridge	4,137	11	0	2	149,769	13,615	36.20	2.66
VUC	Ucluelet	1,532	7	0	0	160,713	22,959	104.90	4.57
VVA	Valemount	1,082	12	1	0	252,180	21,015	233.07	11.09
CVA	Vancouver	451,778	1583	113	10	23,701,547	14,973	52.46	3.50
VVF	Vanderhoof	3,268	11	0	0	1,000,498	90,954	306.15	3.37
CVE	Vernon	20,678	54	2	1	256,488	4,750	12.40	2.61
CVI	Victoria	68,032	220	15	2	1,543,449	7,016	22.69	3.23
TVR	View Royal	5,676	2	0	0	5,000	2,500	0.88	0.35
VWA	Warfield	1,763	1	0	0	1,000	1,000	0.57	0.57
DWV	West Vancouver	38,347	71	4	0	1,114,348	15,695	29.06	1.85
DWH	Whistler	2,562	16	0	0	549,662	34,354	214.54	6.25
CWR	White Rock	15,352	16	0	0	215,036	13,440	14.01	1.04
CWI	Williams Lake	10,127	39	5	0	628,687	16,120	62.08	3.85
VZE	Zeballos	185	2	2	0	3,186,500	1,593,250	17,224.32	10.81

Fire Losses in Non-Municipal Areas

Loc. Code	Location	Fires	Injured	Dead	$ Loss	Loss/Fire
Non-Municipal Areas With Fire Protection						
NOE	108 Mile House	4	0	0	299,450	74,863
NAR	Arras	1	0	0	6,000	6,000
NBA	Barriere	4	0	0	333,000	83,250
NBN	Bear Lake	2	0	0	200,240	100,120
NBB	Bella Bella	1	0	0	67,000	67,000
NBJ	Bella Coola	2	0	0	400,000	200,000
NBV	Blue River	2	0	0	1,200	600
NBO	Boston Bar	4	0	0	6,603	1,651
NBU	Bouchie Lake	5	0	0	289,331	57,866
NBW	Bow Horn Bay/Bowser	1	0	0	1,364	1,364
NBI	Bowen Island	1	0	0	3,804	3,804
NBK	Buckhorn	3	0	0	114,000	38,000
NBG	Burns Lake Rural	2	0	0	28,568	14,284
NSW	BX Swan Lake	9	0	0	112,300	12,478
NCF	Canal Flats	2	0	0	20,900	10,450
NCK	Charlie Lake	2	0	0	40,010	20,005
NCC	Cherry Creek (Van.Isle.)	6	0	0	10,243	1,707
NCU	Chilliwack River Valley	1	0	0	25,000	25,000
NCX	Clearwater	3	0	0	75,500	25,167
NCH	Coal Harbour	1	0	0	3,000	3,000
NCV	Columbia Valley	1	0	0	3,000	3,000
NCM	Comox Rural	1	0	0	1,300	1,300
NCO	Coombs/Hillier	2	0	0	26,500	13,250
NCQ	Courtenay Rural	8	0	0	275,032	34,379
NCJ	Crescent Valley	4	0	0	3,750	938
NCE	Creston Rural	8	0	0	175,100	21,888
NCL	Cultus Lake	2	1	0	4,400	2,200
NCD	Cumberland Rural	1	0	0	14,000	14,000
NDW	Dashwood	1	0	0	2,000	2,000
NDA	Dawson Creek Rural	10	1	0	24,695	2,470
NDI	Denman Island	1	0	0	36,660	36,660
NDU	Duncan Rural	5	1	0	201,304	40,261
NER	Errington	2	0	0	156,800	78,400
NFH	Fairmont Hot Springs	1	0	0	4,754	4,754
NFB	Fanny Bay	2	0	0	103,800	51,900
NFT	Ferndale-Fabor	1	0	0	0	0
NTB	Flood, Laidlaw, Silver-Creek	3	0	0	290,000	96,667
NFN	Fort Nelson	9	0	0	65,062	7,229
NJA	Fort St. James	1	3	1	25,000	25,000
NGI	Gabriola Island	6	0	0	160,302	26,717
NGP	Garden Bay/Pender Harbour	1	0	0	270,400	270,400
NGE	Genelle	1	0	0	950	950
NGB	Gillies Bay	3	0	0	20,382	6,794
NGR	Grand Forks Rural	3	0	0	10,169	3,390
NHG	Hagensborg	1	0	0	1,351	1,351
NHM	Halfmoon Bay	2	0	0	187,999	94,000
NHE	Hedley	1	0	0	2,000	2,000

Loc. Code	Location	Fires	Injured	Dead	$ Loss	Loss/Fire
NHO	Holberg	1	0	0	172,741	172,741
NHB	Honeymoon Bay	2	0	0	19,549	9,775
NHR	Hosmer	2	0	0	31,000	15,500
NKA	Kaleden	3	0	0	1,000	333
NKP	Kamloops Rural	3	0	0	2,750	917
NKL	Kawkawa Lake	1	0	0	140,000	140,000
NKE	Kemano	1	0	0	250,000	250,000
NKB	Kootenay Boundary Rural	6	0	0	143,000	23,833
NLF	Langford	29	3	0	253,593	8,745
NLV	Lantzville	1	0	0	451	451
NLI	Lasqueti Island	3	1	0	179,384	59,795
NLR	Lumby Rural	1	0	0	638	638
NML	Malaspina	1	0	0	60,000	60,000
NMR	Merritt Rural	3	0	0	8,550	2,850
NMB	Mill Bay	11	1	0	245,000	22,273
NMO	Moberly Lake	1	0	0	2,100	2,100
NMT	Moricetown	2	0	0	500,773	250,387
NNA	Nanoose Bay	4	0	0	107,719	26,930
NNR	Naramata	1	0	0	4,640	4,640
NND	Nelson	4	1	0	25,200	6,300
NNB	North Bend	2	0	0	800	400
NNC	North Cedar	5	2	0	116,400	23,280
NNF	North Fraser	3	0	0	248,600	82,867
NNO	North Oyster	2	0	0	19,932	9,966
NNP	North Pender Island	1	0	0	75,000	75,000
NNS	North Shore	1	1	0	2,000	2,000
NNV	North Vancouver District	1	0	0	252,000	252,000
NOL	Okanagan Landing	1	0	0	2,255	2,255
NOP	Otter Point	2	0	0	3,913	1,957
NOY	Oyama	1	0	0	26,500	26,500
NOR	Oyster River	1	0	0	25,000	25,000
NPB	Pavilion	1	0	0	500	500
NPE	Penticton Rural	2	0	0	10,500	5,250
NPV	Pineview	2	0	0	23,000	11,500
NPF	Port Alberni	2	0	0	3,000	1,500
NPA	Port Alberni Rural	2	0	0	1,353	677
NPM	Port Mellon	2	0	0	4,000	2,000
NPR	Port Renfrew	1	0	0	0	0
NQI	Quadra Island	1	0	0	12,000	12,000
NQC	Queen Charlotte City	2	1	0	2,000	1,000
NQR	Quesnel Rural	15	1	0	451,403	30,094
NRD	Ranchero/Deep Creek	1	0	0	600	600
NRE	Revelstoke	2	0	0	52,000	26,000
NRC	Roberts Creek	7	0	0	328,250	46,893
NRO	Robson	4	0	0	66,313	16,578
NSF	Salt Spring Island	9	1	0	117,000	13,000
NSV	Savona	3	0	0	14,018	4,673
NSC	Scotch Creek	1	0	0	97,000	97,000
NSE	Shawnigan Lake	14	0	0	298,952	21,354
NSJ	Sicamous	6	0	0	249,800	41,633
NSM	Silver Creek	5	2	1	115,500	23,100
NSZ	Sooke	9	0	0	36,213	4,024

Loc. Code	Location	Fires	Injured	Dead	$ Loss	Loss/Fire
NSR	Sorrento	6	0	0	128,117	21,353
NSG	South Galiano	2	0	0	52,300	26,150
NSS	South Slocan	2	0	0	2,570	1,285
NSO	Sproat Lake	2	0	0	1,026,400	513,200
NTA	Squamish	1	0	0	25,000	25,000
NTP	Tappen/Sunnybrae	1	0	2	17,500	17,500
NTY	Tarry's	7	0	0	208,973	29,853
NTH	Thornhill	10	0	0	94,986	9,499
NTD	Tomslake and District	1	0	0	0	0
NUE	UBC Endowment Lands	31	0	0	114,725	3,701
NUB	Union Bay	1	0	0	11,000	11,000
NVR	View Royal	6	0	0	11,140	1,857
NWA	Watch Lake/Green Lake	2	0	0	135,000	67,500
NWS	Wells	1	0	0	110,000	110,000
NWF	West Fernie Fire Prot. Dist.	1	0	0	8,000	8,000
NWE	Westside	26	3	0	200,291	7,704
NWT	White Lake	1	0	0	68,000	68,000
NWH	Whitecroft	2	1	0	56,500	28,250
NWK	Williams Lake	10	0	0	191,359	19,136
NWI	Windermere	1	0	0	1,775	1,775
NWN	Winfield	8	0	0	188,992	23,624
NWO	Woss	2	0	0	63,498	31,749
NWL	Wynndell-Lakeview	1	0	0	100,000	100,000
NYM	Ymir	1	0	0	500	500
NYU	Youbou	1	0	0	1,000	1,000

Loc. Code	Location	Fires	Injured	Dead	$ Loss	Loss/Fire
Non-Municipal Areas With No Fire Protection (grouped together into respective regional districts)						
RAC	Alberni-Clayoquot	17	0	1	224,322	13,195
RBN	Bulkley-Nechako	44	0	0	1,688,335	38,371
RCA	Capital	15	0	1	113,082	7,539
RCB	Cariboo	58	1	1	2,827,955	48,758
RCF	Central Fraser Valley	3	0	0	15,891	5,297
RCK	Central Kootenay	31	1	0	746,878	24,093
RCL	Columbia-Shuswap	27	2	0	440,756	16,324
RCO	Central Okanagan	8	0	0	60,311	7,539
RCS	Columbia-Shuswap	28	0	1	854,805	30,529
RCV	Cowichan Valley	11	0	0	182,174	16,561
RDA	Dewdney-Allouette	4	0	0	50,802	12,701
REK	East Kootenay	38	0	0	1,413,112	37,187
RFC	Fraser-Cheam	28	0	0	606,014	21,643
RFG	Fraser-Fort George	52	0	0	844,275	16,236
RGV	Greater Vancouver	8	0	0	114,009	14,251
RKI	Kitimat-Stikine	26	0	0	319,132	12,274
RKO	Kootenay Boundary	5	0	1	12,065	2,413
RMW	Mount Waddington	5	0	2	59,300	11,860
RNA	Nanaimo	10	0	1	50,650	5,065
RNO	North Okanagan	11	1	0	274,931	24,994
ROS	Okanagan-Similkameen	21	0	0	711,176	33,866
RPL	Peace River-Liard	83	2	0	1,715,095	20,664
RPR	Powell River	3	0	0	2,422	807
RSC	Skeena-Queen Charlotte	15	0	0	667,601	44,507
RSL	Squamish-Lillooet	18	1	1	401,279	22,293
RST	Stikine	7	0	0	957,200	136,743
RSU	Sunshine Coast	9	0	0	105,580	11,731
RTN	Thompson-Nicola	62	3	1	3,295,713	53,157

FIRE LOSSES AND CASUALTIES BY MONTH

Month	Fires	$ Loss	Injured	Dead
January	599	13,513,924	48	3
February	727	30,873,145	38	13
March	619	20,377,441	32	8
April	694	14,467,402	39	6
May	616	17,054,536	28	2
June	605	12,109,007	22	3
July	687	14,020,850	35	3
August	578	8,354,653	20	0
September	571	16,960,235	44	4
October	576	9,057,213	11	5
November	517	10,658,719	24	3
December	491	13,623,994	46	8
TOTALS	**7,280**	**181,071,119**	**387**	**58**

STATUS, AGE, AND SEX OF CASUALTY, 1989

	Fires	Injured	Dead
Status of Casualty			
Firefighter	61	85	0
Civilian	279	302	58
Age of Casualty			
Unknown	28	30	0
Birth - 2 years	9	5	4
3 -4 years	6	5	3
5 - 6 years	4	2	2
7 - 8 years	3	3	0
9 - 10 years	2	2	0
11 - 12 years	2	1	1
13 - 14 years	5	4	1
15 - 16 years	7	5	2
17 - 18 years	9	10	0
19 - 20 years	15	11	4
21 - 30 years	76	77	9
31 - 40 years	90	98	9
41 - 50 years	52	57	4
51 - 60 years	45	43	6
61 - 70 years	20	15	5
71 - 80 years	21	17	4
81 - 90 years	6	2	4
Sex of Casualty			
Male	263	291	38
Female	98	96	20

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
AO	**Act or Omission**				
AO000	Act or omission unknown	1,264	69	21	82,007,214
AO011	Arson or set fire - financial gain	9			216,050
AO012	Arson or set fire - cover-up crime	72	1		2,765,034
AO013	Arson or set fire - political, religious, riot, civil commotion	8			700,650
AO014	Arson or set fire - revenge , spite	33	3	1	565,059
AO015	Arson or set fire - mental disorder, attempted suicide, suicide	20	2		333,496
AO016	Arson or set fire - vandalism mischief	349	4		1,624,392
AO017	Arson or set fire - intimidation	5			24,879
AO018	Arson or set fire - motive unknown or unclassified	333	12		10,420,296
	Misuse of Source of Ignition				
AO019	Suspected set fire - motive unknown or unclassified	584	15	2	12,171,928
AO021	Smokers' material	463	39	9	3,675,161
AO022	Thawing	25			469,475
AO023	Inadequate control of "open" fire	67	4		1,935,873
AO024	Child playing with matches, lighter etc.	118	9	2	1,236,214
AO025	Welding or cutting too close	55	5		1,680,622
AO026	Torch too close	55	8		818,228
AO029	Misuse of source of ignition - unclassified	54	2		646,515
	Misuse of Material Ignited				
AO031	Fuel spilled accidentally	37	11	1	606,506
AO032	Improper fuelling technique	15	4		20,611
AO033	Flammable liquid to kindle fire	2	2		75,000
AO034	Cleaning, washing parts	4	2		51,000
AO035	Improper container, metal	2			3,500
AO036	Improper container, plastic	1			100
AO037	Combustible placed too close to heat	69	9		1,189,719
AO038	Improper storage	26	3		598,489
AO039	Misuse of material ignited - unclassified	24	5		321,539
	Mechanical or Electrical Failure				
AO041	Part failure, leak, break	714	15		7,232,361
AO042	Automatic control failure	80	2	1	1,399,070
AO043	Manual control failure	6			66,055
AO044	Electrical short circuit	694	14	1	7,052,555
AO046	Part worn out	47			238,991
AO049	Mechanical or electrical failure unclassified	255	8	1	5,089,175
	Construction, Design or Installation Deficiency				
AO051	Design deficiency	20			244,666
AO052	Construction deficiency	62	1		678,130
AO053	Installed too close to combustible	98	2		2,065,868
AO054	Other installation deficiency	26			294,327

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
AO055	Overfusing	2			3,579
AO056	Suspected faulty connections involving aluminum wiring	4			29,622
AO057	Suspected faulty connections involving copper wiring	4			45,000
AO059	Construction design or installation deficiency - unclassified	19			3,411,444
	Misuse of Equipment				
AO061	Overfuelling	10			22,361
AO069	Misuse of equipment - unclassified	53	3		465,698
	Human Failing				
AO071	Asleep	42	10	4	526,507
AO072	Temporary loss of judgement suspected (includes panic)	13	3		131,078
AO073	Physical or mental disability	6	1	2	18,209
AO074	Accident	245	22	1	3,783,295
AO075	Suspected impairment by use of alcohol, drugs or medication	46	9	7	582,386
AO076	Asleep - suspected use of alcohol, drugs or medication	24	9	2	1,575,013
AO077	Ignorance of hazard	448	43	1	6,669,677
AO078	Distracted, preoccupied	263	23	1	2,617,080
AO079	Human failing - unclassified	115	7	1	638,777
	Vehicle Accident				
AO081	Automobile accident	41			362,432
AO082	Industrial truck accident	3			79,000
AO083	Other road vehicle accident	2			17,450
AO084	Rail vehicle accident	2			1,208,705
AO085	Watercraft accident	2			50,000
AO086	Aircraft accident	1			20,000
AO089	Vehicle accident - unclassified	19			206,666
	Miscellaneous Act or Omission				
AO091	Chimney fire (masonry)	36			95,588
AO092	Chimney fire (factory-built)	7			18,486
AO099	Misc. act or omission unclassified	177	6		9,974,318
	TOTALS	**7,280**	**387**	**58**	**181,071,119**
BH	**Building Height**				
BH000	Building height unknown	98	1		738,527
BH001	01 storey or 3m	1,850	135	30	56,366,415
BH002	02 stories or 6m	1,464	126	19	81,317,069
BH003	03 to 04 stories or 9m to 12m	473	54	5	15,651,035
BH004	05 to 06 stories or 15m to 18m	53	7		3,079,220
BH005	07 to 12 stories or 21m to 36m	37	5		2,504,572
BH006	13 to 24 stories or 40m to 73m	34	5		144,228
BH007	25 to 49 stories or 75m to 149m	7			108,239
BH009	Not applicable eg. vehicle outside area, etc.	3,264	54	4	21,161,814
	TOTALS	**7,280**	**387**	**58**	**181,071,119**

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
FH	**Form of Heat**				
FH000	Form of heat unknown	2,475	88	26	104,844,212
FH001	Spark: Ember	252	19		5,162,306
FH002	Spark: Electrical	939	34	3	11,623,187
FH003	Spark: Static electrical	45	4		1,425,989
FH004	Direct flame, flue gases	1,449	103	9	26,461,325
FH005	Friction heat	60	1		3,578,809
FH006	Hot object, direct heat by conduction or radiation	1,382	82	6	17,631,752
FH007	Spontaneous ignition	66	1		1,793,336
FH008	Heat from smoker's material	534	53	14	4,427,275
FH009	Form of heat - unclassified	78	2		4,122,928
	TOTALS	**7,280**	**387**	**58**	**181,071,119**
FS	**Fire Service**				
FS000	Fire service unknown	721	4		3,533,501
FS001	Full time fire department	3,145	204	23	58,189,132
FS002	Volunteer fire department	783	40	23	37,081,421
FS003	Combined full time and volunteer fire department	2,211	127	10	69,697,259
FS004	Police acting as full time firefighters	44	3		463,161
FS005	Combined police and fire department	1			48,200
FS006	Combined police and volunteer firefighters	5			15,756
FS007	Fire service - contract to others	7			60,770
FS008	No fire service	332	7	2	11,357,023
FS009	Fire service - unclassified	31	2		624,896
	TOTALS	**7,280**	**387**	**58**	**181,071,119**
FU	**Fuel or Energy**				
FU000	Fuel or energy unknown	1,784	79	25	92,031,874
FU001	Coal, wood	684	23	3	21,611,744
FU002	Fuel, kerosene	94	2	1	6,358,886
FU003	Gasoline	970	31	1	6,338,992
FU004	Natural gas or other fuel gas	441	48	2	10,563,608
FU005	Cigarette, cigar, pipe, match, lighter	1,047	79	20	10,806,964
FU006	Electricity	1,666	91	4	22,944,889
FU007	Lightning	16			75,841
FU008	Exposure fire	262	13		3,531,496
FU009	Fuel or energy - unclassified	316	21	2	6,806,825
	TOTALS	**7,280**	**387**	**58**	**181,071,119**
ID	**Initial Detection**				
ID000	Initial detection unknown	767	4	1	3,875,147
ID001	Smoke alarm device	173	14	2	3,952,336
ID002	Smoke detector device	69	4	2	1,964,505
ID003	Heat alarm device	23			358,235
ID004	Heat detector device	20	3		8,652,749
ID005	Automatic sprinkler system	34			606,956
ID006	Automatic system - other than sprinkler	10			83,005

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
ID007	Visual sighting	6,051	353	52	159,740,059
ID008	None	70	1		558,121
ID009	Initial detection - unclassified	63	9		1,280,006
	TOTALS	**7,280**	**387**	**58**	**181,071,119**
IG	**Igniting Object (Source of Ignition)**				
IG000	Igniting object unknown	1,784	87	24	96,778,889
IG001	No igniting object	78	10	2	1,340,389
	Cooking Equipment				
IG002	Stove, range: Top burner area - fire in pan	302	29	2	2,325,586
IG003	Stove, range: Top burner area - fire in deep fat fryer or pot	142	25		1,487,237
IG004	Stove, range: Top burner area - other circumstances	68	4		566,929
IG005	Oven of stove, range	44	1		484,565
IG006	Chafing dish, fondue	5	6		9,546
IG007	Deep fat fryer - separate appliance	6	2		97,835
IG011	Fry pans, grills not on stove	5			11,288
IG012	Other cooking unit	21	4		126,370
IG013	Open fired broiler - fixed type	4			47,260
IG014	Open fired broiler - portable type	74	4		2,454,059
IG015	Food warming appliance	33			527,874
IG016	Toaster, waffle iron	15	1		169,250
IG019	Cooking equipment - unclassified	21	1		1,708,050
	Heating Equipment				
IG021	Central heating unit	79	8	1	2,957,321
IG022	Service water heater	33	6		1,279,390
IG023	Space heater - stationary	115	7	2	1,886,994
IG024	Space heater - portable	51	3		791,354
IG025	Fireplace	91	3		1,098,342
IG026	Chimney, masonry	116	2		1,378,709
IG027	Flue pipe, vent connector	15	2		515,923
IG028	Chimney, factory-built, metal	71	3		2,065,438
IG029	Heating equipment - unclassified	41	1		768,709
	Appliances				
IG031	Television	11			323,681
IG032	Radio, phonograph, tape-recorder	7			82,441
IG033	Clothes dryer	86	6		1,433,013
IG034	Washing machine	7			113,770
IG035	Air conditioning and refrigeration: Central	1			2,000
IG037	Refrigeration unit: Individual	15			198,148
IG038	Pressing iron, ironing machine	3	1		101,100
IG041	Lawnmower	5			177,250
IG043	Electric blanket, heating pad	9	1		20,673
IG044	Incinerator	5			1,450
IG049	Appliance - unclassified	51	3		1,186,186
	Electrical Distribution Equipment				
IG051	Electrical wiring, cable: Permanent	422	6	1	4,398,592

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
IG052	Transformer	7			38,734
IG053	Switch gear	6			106,100
IG054	Panelboard, switchboard	31	3		448,848
IG055	Switch, outlet	34	4	1	518,681
IG056	Electric, wiring, cable: Temporary	89	3		1,928,292
IG057	Signal, telephone equipment	2			2,801
IG058	Battery, rectifier, charger	136	2		677,853
IG059	Electrical distribution equipment - unclassified	60	1		2,786,641
	Other Electrical Equipment				
IG061	Electric motor: 1 hp and over	32			3,516,311
IG062	Electric motor: Under 1 h.p.	7			19,077
IG063	Electronic equipment - communications	2			3,450
IG064	Electronic equipment - data processing	1			50,000
IG065	Incandescent lamp	60	1		1,406,237
IG066	Fluorescent lamp	4			575
IG069	Other electrical equipment - unclassified	48	1		1,255,313
	Smokers' Material and Open Flame				
IG071	Smoker's material: cigarette, cigar, pipe, matches, lighter	551	53	19	4,894,450
IG072	Match, lighter: not used in conjunction with smoking	637	33	3	11,209,623
IG073	Lamp	15	1		371,238
IG074	Candle, taper	47	4		456,106
IG075	Cutting torch	34	2		491,124
IG076	Welding equipment	42	4		1,148,060
IG077	Torch: Other than cutting, welding	100	4		1,478,482
IG078	Hot ashes, embers	88	2		2,510,688
IG079	Smoker's material of "open" flame - unclassified	60	2	2	631,154
	Exposure				
IG081	Structure: Attached	11			510,160
IG082	Structure: Detached	93	7		1,153,676
IG083	Lumber yard	1			46,083
IG084	Outside storage container, tank	3			17,050
IG085	"Open" fire	62	3		513,333
IG087	Grass, bush	35	1		545,476
IG089	Exposure - unclassified	57	4		603,213
	Miscellaneous				
IG090	Internal combustion engine	799	16		3,417,523
IG091	Heat treatment equipment	8			65,626
IG092	Industrial oven	3			128,200
IG094	Explosive	5	5		35,100
IG095	Fireworks	29			233,058
IG096	Bearing, belting, conveyor, brake	23			91,157
IG097	Machinery, equipment: Commercial and industrial	27	3		2,507,512

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
IG098	Chemical reaction	38			965,586
IG099	Igniting object - unclassified	157	3		5,372,917
	TOTALS	**7,280**	**387**	**58**	**181,071,119**
IN	**Incident Report**				
IN006	Alarm fire: LAFC report updated by insurance report	1,156	100	15	66,872,866
IN007	No-alarm fire: LAFC report updated by insurance report	37	1		680,725
IN008	Alarm fire: Insurance report only	229	1		1,679,184
IN009	No-alarm fire: Insurance report only	459			1,308,698
IN010	Alarm fire: reported by LAFC only	5,151	275	43	103,710,545
IN011	No alarm fire: reported by LAFC only	248	10		6,819,101
	TOTALS	**7,280**	**387**	**58**	**181,071,119**
LV	**Level Origin**				
LV000	Level of origin unknown	186	1	3	3,721,276
LV001	Basement, sub-basement	434	50	8	11,926,632
LV002	Crawl space, under structure	77	14		3,793,100
LV003	Ground floor, grade level	2,419	183	41	111,631,173
LV004	2nd storey	488	57	5	11,095,126
LV005	3rd storey	83	9		2,850,046
LV006	4th to 12th story, inclusive	61	12		386,265
LV007	Over 12 storeys	9	1		73,738
LV008	Roof level, includes concealed roof space, attic	208	5		14,177,981
LV009	Level of origin - not applicable	3,315	55	1	21,415,782
	TOTALS	**7,280**	**387**	**58**	**181,071,119**
MI	**Material First Ignited**				
MI000	Material first ignited unknown	1,791	77	22	93,066,997
	Structural Materials, Finish Materials				
MI001	Roof covering: Wood	79	2		2,107,474
MI002	Roof covering: Other than wood	30	1		952,925
MI003	Exterior wall covering,surface,finish	165	13		2,543,116
MI004	Exterior trim & appurtenance	22	1		1,034,021
MI005	Floor covering: Wood	41			1,797,200
MI006	Floor covering: Linoleum, tile, plastic	17			266,776
MI007	Floor covering: Carpet, rug	85	3		701,004
MI008	Structural component: Floor, ceiling, roof	98	11		9,949,368
MI009	Structural component: Wall	103	3		2,910,553
MI010	Interior wall covering: wood, fibreboard (high density)	119	6	1	2,497,318
MI011	Interior wall covering: fibreboard (low density)	35	2		883,751
MI012	Interior wall covering: plastic	12	5	1	322,485
MI013	Ceiling covering: wood, fibreboard (high density)	31			903,893
MI014	Ceiling covering: fibreboard (low density)	9			242,560

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
MI015	Ceiling covering: plastic	5			6,549
MI016	Insulation: Wood product	20			357,491
MI017	Insulation: Plastic	48	2		449,695
MI018	Insulation: Mineral	20			280,006
MI019	Structural components, finish materials - unclassified	40	2		900,609
	Furniture, Furnishings				
MI021	Furniture (upholstered)	245	37	14	3,376,752
MI022	Furniture: Wood (not upholstered)	21	2		430,610
MI023	Furniture: Plastic (not upholstered)	1			800
MI024	Ironing board	1			1,000
MI025	Mattress, pillow	116	10	2	1,340,334
MI026	Bedding	132	15	3	1,927,042
MI027	Drapery	26			423,708
MI028	Broom, mop, brush	4			11,964
MI029	Furniture, furnishings - unclassified	21	1		50,632
	Clothing, Textiles				
MI031	Clothing: Cotton, on a person	33	2		242,076
MI032	Clothing: Wool, on a person	4			10,260
MI033	Clothing: Synthetic fibre, on a person	54	5	1	517,673
MI034	Fabric: Cotton	38	8	1	1,758,820
MI035	Fabric: Wool	5			4,800
MI036	Fabric: Synthetic fibre	32			362,236
MI038	Tarpaulin	11	1		94,792
MI039	Clothing, textiles - unclassified	21	2		927,013
	Wood, Paper Products				
MI041	Wood	95	1		1,352,530
MI042	Wood shavings	59	3		5,650,043
MI044	Paper, packing material	60	4		903,692
MI045	Paper decoration	7			15,728
MI046	Wastepaper	71	2	1	1,095,402
MI047	Cardboard	55	2		1,147,711
MI048	Paper stock	91	5	1	3,857,769
MI049	Wood, paper products - unclassified	71	2		874,988
	Flammable, Combustible Liquids				
MI051	Gasoline	845	35	1	6,455,888
MI052	Fuel oil	50	1	1	2,585,107
MI053	Combustible liquid: Flashpoint 100F and over	53	7		2,604,785
MI054	Flammable liquid Flashpoint less than 100F	28	16		295,199
MI055	Paint, varnish	25	1		591,728
MI056	Cooking oil, fat	372	49	1	3,380,280
MI057	Tar, asphalt	5			13,750
MI058	Polish, wax	9			38,054
MI059	Flammable liquids - unclassified	82	5		1,502,573

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
	Flammable Gases				
MI061	Natural gas	15			612,782
MI062	Propane/butane air mixture	42	9		260,508
MI063	Propane, butane, L.P.G	59	9	1	1,911,186
MI065	Acetylene	9	1		70,582
MI066	Hydrogen	2			34,064
MI069	Flammable gases - unclassified	12	2		114,883
	Chemicals, Plastics, Metals				
MI072	Cellulose nitrate	7			35,687
MI073	Plastics	153	2		2,179,780
MI075	Magnesium and alloys	1			10,452
MI077	Rubber, natural or synthetic	53	1		153,399
MI079	Chemicals - unclassified	28			115,222
	Argricultural, Forestry Products				
MI081	Fibres	11			304,357
MI082	Grain, flour, starch	4			73,338
MI083	Hay, straw	27			484,387
MI084	Tree, shrub	43			189,250
MI085	Felled timber	5	4		209,605
MI086	Grass, brush, leaves	50			306,508
MI087	Fertilizer, manure	1			10,500
MI088	Christmas tree	4			5,512
MI089	Agricultural, forestry products - unclassified	9			54,400
	Miscellaneous				
MI091	Coal, coke	5			58,764
MI092	Creosote deposits in chimney, flue	85	1		555,665
MI095	Insulation: Electric	490	4	1	2,827,344
MI096	Garbage, trash, rubbish	422	8		937,418
MI097	Oily rags	22			338,594
MI099	Miscellaneous material - unclassified	208	8		3,197,402
	TOTALS	**7,280**	**387**	**58**	**181,071,119**
OA	**Area of Origin**				
OA000	Area of origin unknown	277	4	5	8,522,918
	Means of Egress				
OA001	Hallway, corridor	73	13		3,214,225
OA002	Stairway, exterior	18			325,397
OA003	Stairway, interior	24	1		677,855
OA005	Lobby, entrance way	53	5		893,120
OA006	Elevator	5			2,724,969
OA009	Means of egress - unclassified	28	1	1	437,336
	Assembly, Family, Sales Area				
OA011	Large assembly area: Fixed seats	5			62,975
OA012	Large assembly area: Non-fixed seats	6			664,643
OA013	Small assembly area 18	1			2,520,695
OA014	Lounge, living room	434	75	26	10,975,873
OA015	Sales, show room area	15			768,267

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
OA016	Library, museum	4	1		3,282,040
OA017	Sports facility	6			202,400
OA018	Covered court, atrium, mall,concourse	2			274,601
OA019	Assembly, sales area - unclassified	1			22,942
	Function Area				
OA021	Sleeping (under 5 occupants)	396	38	11	7,243,281
OA022	Sleeping (5 or more occupants)	1			1,500
OA023	Dining area	30	7	1	1,142,583
OA024	Bar, beverage area	4			131,000
OA025	Washroom, locker room	86	4		1,339,357
OA026	Office	30	9		2,338,629
OA027	Laboratory	6			261,967
OA028	Display windows	3			650
OA029	Printing, photographic reproduction	3			13,000
OA031	Kitchen, cooking area	726	66	3	9,484,479
OA032	Laundry area	139	11		4,550,192
OA033	First-aid, treatment area	1			500
OA035	Electronic equipment room	12			318,103
OA036	Performance area	1	5		11,000
OA037	Backstage, dressing room	2			1,007,500
OA038	Process, manufacturing area	34			6,699,009
OA039	Function area - unclassified	50	6		1,227,174
	Storage Area (Inside Building)				
OA041	Product storage area	34	4		10,505,697
OA042	Closet, lockers	35	2	1	1,387,652
OA043	Supplies, equipment area	51	2		2,212,710
OA044	Records storage area	1			0
OA045	Shipping,receiving area,mail room	4			1,823,200
OA046	Trash, rubbish area	15			51,626
OA047	Vehicle (garage)	193	8		5,205,000
OA048	Agricultural products storage	16			303,575
OA049	Storage area - unclassified	105	9	2	4,067,871
	Service Facilities				
OA051	Dumbwaiter, conveyor shaft	2			11,000
OA052	Service shaft	1			2,500
OA053	Chute	2			2,211
OA054	Pipe, piping	1	1		0
OA056	Duct: Cooking, exhaust	1			4,500
OA057	Chimney: Masonry	90	2		758,308
OA058	Chimney: Factory built metal	60	1		821,117
OA059	Service facilities - unclassified	8			212,655
	Service and Equipment Area				
OA061	Machinery room	38	1		20,317,641
OA062	Heating equipment room	93	3	6	7,076,834
OA063	Transformer vault	13	2		3,600,843
OA064	Incinerator room	4	1		13,726
OA065	Maintenance shop	49	12		2,035,168
OA066	Paint shop	1	1		45,000
OA069	Service and equipment area - unclassified	34	4		1,725,792

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
	Structural Area				
OA071	Crawl space	56	6		2,820,049
OA072	Exterior balcony	67	7		2,725,764
OA073	Ceiling and floor assembly	34	5		998,153
OA074	Ceiling and roof/ceiling space	87	2		10,917,203
OA075	Wall Assembly	53			1,137,234
OA076	Exterior wall	141	7		1,598,365
OA077	Exterior roof	72	2		1,837,672
OA078	Awning, canopy	5	3		11,844
OA079	Structural area - unclassified	32			745,882
	Vehicle Area				
OA082	Vehicle: Engine area	1,411	23		7,234,335
OA083	Vehicle: Fuel area	221	5		1,223,742
OA084	Vehicle: Control area	116	3		1,002,111
OA085	Vehicle: Passenger area	486	3	1	2,037,359
OA086	Vehicle: Cargo area	112	3		1,996,813
OA089	Vehicle area - unclassified	203			1,336,853
	Miscellaneous				
OA091	Open area	139	3		581,075
OA092	Court, patio, terrace	54	1		308,386
OA093	Parking area	52			1,006,760
OA094	Storage area	47	3		1,845,699
OA095	Trash, rubbish area	367	2		1,556,919
OA099	Outside area - unclassified	181	10		4,624,095
	TOTALS	**7,280**	**387**	**58**	**181,071,119**
PR	**Property Classification**				
PR000	Property classification unknown	2			8,200
	Assembly				
PR111	Legitimate theatre	1			50
PR112	Motion picture theatre	2			1,050
PR114	Auditorium	2			25,428
PR115	Radio, TV studio	1			7,000
PR116	Motion picture studio	1	5		11,000
PR119	Theatre, studio, auditorium - unclassified	1			20,095
PR122	Billiard centre	2			33,500
PR123	Ice rink	2			2,500
PR124	Amusement centre	4			3,250
PR125	Swimming facility	1			7,500
PR126	Ballroom, gymnasium	6	1		434,500
PR127	Exhibition hall, exposition hall	2			550
PR128	Arena, stadium	1			800
PR129	Amusement, recreation place - unclassified	6			3,410
PR132	Elementary school	26	3		1,721,439
PR133	High school	30	4		248,671
PR137	Rehabilitation school	1			1,000
PR138	College, university	9	1		222,645
PR139	Educational facility - unclassified	5			494,120
PR141	Church, chapel	6			1,012,644
PR143	Church hall	6			381,550

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
PR151	City club	5			33,850
PR152	Country club	2			141,205
PR159	Social, sport club - unclassified	8			146,075
PR161	Library	3	1		3,281,000
PR164	Historic building	1			39,322
PR171	Restaurant	67	10		3,390,517
PR172	Night club	4			205,600
PR173	Tavern	6			222,623
PR174	Lunchroom, drive-in	4			5,400
PR179	Food or beverage establishment - unclassified	7	1		206,409
PR183	Bus terminal	1			10,000
PR187	Marine passenger terminal	2			5,200
PR189	Passenger terminal, station - unclassified	2			210
PR199	Miscellaneous assembly - unclassified	2			350
	Institutional				
PR211	Prison: Penitentiary for men	1	1		4,000
PR214	Reformatory, juvenile detention home	3	1		150,000
PR215	Adult detention camp	1			100
PR217	Police station, with lock-up facilities	1			50
PR219	Prison, jail, reformatory - unclassified	1			2,500
PR221	Home for the aged with nursing staff	12			37,875
PR222	Home for the aged without nursing staff	2			8,150
PR231	Children's home, orphanage	1			500
PR233	Children's day care	1			75
PR241	Hospital	6	1		31,300
PR242	Sanatorium, sanatarium, nursing or convalescent home	4			5,700
PR244	Mental hospital	1			50,000
PR245	Clinic	1			3,000
PR249	Hospital, sanatorium, clinic - unclassified	1		1	3,500
PR299	Miscellaneous institutional - unclassified	5			8,750
	Residential				
PR311	Dwelling year-round use (1-family)	1,883	134	39	41,443,321
PR312	Dwelling, seasonal use - in season (1-family)	27			418,616
PR313	Dwelling, seasonal use - off season (1-family)	10	2		217,547
PR314	Dwelling, year-round use (2-family)	120	21	1	2,072,560
PR315	Dwelling, seasonal use - in season (2-family)	3	2		49,300
PR317	Dwelling, farm (1-family	17			781,486
PR318	Dwelling, farm (2-family)	2			6,042
PR319	Dwelling, 1 & 2 family - unclassified	21			533,203
PR321	Apartment, townhouse: 1-2 units with business	11			1,517,440
PR322	Apartment, townhouse: 1-2 units without business	12	1		197,651

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
PR323	Apartment, townhouse: 3-20 units with business	44	6		1,290,242
PR324	Apartment, townhouse: 3-20 units without business	175	29	3	3,284,160
PR325	Apartment, townhouse: Over 20 units	229	25	3	3,191,175
PR329	Apartment, townhouse- unclassified	26	1	1	87,272
PR331	Rooming, boarding, lodging house: 4 to 8 roomers or boarders	9	2	1	110,364
PR332	Rooming, boarding, lodging house: 9 to 15 roomers or boarders	4			15,500
PR339	Rooming, boarding, lodging house - unclassified	8			31,195
PR341	Hotel, inn, lodge: Year-round use	94	14	1	2,242,440
PR342	Hotel, inn, lodge: seasonal use - in season	2			36,000
PR343	Hotel, inn, lodge: Seasonal use - off season	1			335,000
PR344	Hotel, inn, lodge: Transient dormitory type	1			400
PR349	Hotel, inn, lodge - unclassified	4			519,193
PR351	Motor hotel, motel: Fewer than 3 units	1			9,000
PR352	Motor hotel, motel: 3-20 units	9	1	1	240,131
PR353	Motor hotel, motel: Over 20 units	9			771,890
PR361	Dormitory: School, college, university dormitory	4			9,000
PR365	Dormitory: Convent, monastery or other religious dormitory	1			500
PR366	Dormitory: Bunkhouse and workers' barrack	5			51,500
PR369	Dormitory - unclassified	1			6,270
PR371	Mobile home (1 or 2 family unit)	77	9	3	1,425,976
PR372	Houseboat	3			49,000
PR373	Travel trailer	23	3	1	112,478
PR374	Camping trailer	10	1		39,744
PR375	Motor home	24	3	1	398,649
PR376	Truck with camper	7			56,698
PR379	Mobile home, trailer - unclassified	33			308,286
PR391	Children's play house	1			500
PR399	Residential miscellaneous - unclassified	20			201,538
	Business and Personal Service				
PR411	General business office	30	10		935,544
PR412	Civic, federal or provincial government office	5			7,015,150
PR413	Bank	7			321,317
PR414	Medical, health, research or scientific office	9	5		1,080,136
PR415	Engineering, architectural and technical office	4			37,251

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
PR416	Mailing, photocopy company office	1			1,850
PR417	Post office	3			2,111
PR419	Office - unclassified	3			114,575
PR421	Barber or hairdressing establishment	1			2,078
PR422	Beauty parlour	4			9,850
PR429	Personal service property - unclassified	3			31,238
PR439	Electronic equipment - unclassified	1			936,250
PR499	Miscellaneous business and personal service - unclassified	11			72,874
	Mercantile				
PR511	Supermarket	10			552,111
PR512	Market, grocery store	7	1		651,230
PR513	Specialty food store	8			619,926
PR516	Delicatessen	1			150
PR519	Food, beverage sale-unclassified	5			89,805
PR521	Clothing store	2			61,878
PR522	Clothing accessories, shoe store	3			60,500
PR525	Fur store	1			150
PR531	Furniture store	5			575,927
PR532	Appliance store	4			182,191
PR533	Hardware store	3			377,600
PR536	Rug, floor covering store	2	1		5,788
PR539	Furniture, appliance hardware sales - unclassified	3			26,583
PR542	Newsstand, tobacco shop	2			250
PR543	Drug store	4	1		253,050
PR544	Jewelry store	1			6,000
PR546	Leather goods shop	1			2,000
PR547	Florist shop, greenhouse	1			400
PR551	Hobby, toy shop	3			32,500
PR552	Dry goods store	3			208,700
PR554	Garden supply store	2			224,729
PR556	Pet store, animal hospital	1			15,000
PR559	Recreation, hobby supplies - unclassified	3			136,300
PR561	Furniture repair or upholstery without sales	2			86,843
PR563	Laundry, self-service	4			27,400
PR564	Laundry, dry cleaner	6			29,937
PR566	Home maintenance service	1			22,000
PR567	Maintenance shop, general	10			1,333,249
PR571	Service station; public	10	4		99,291
PR573	Motor vehicle repairs	21	6		2,069,856
PR574	Florist shop	6			22,761
PR575	Motor vehicle accessory salds	2	1		253,000
PR576	Boat sales	1			20,833
PR577	Marine service station	2			28,000
PR579	Motor vehicles, boats, sales and service - unclassified	9			25,918
PR581	Department store	8			47,307

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
PR582	Variety store - small	5			7,657
PR583	Variety store - large	3			9,900
PR585	Shopping mall - public Areas	7			1,747,726
PR592	Trade supply sales	1	1		5,934,533
PR593	Builders supply sales	1			5,000
PR599	Miscellaneous mercantile - unclassified	7			3,042,710
	Industrial Manufacturing Properties				
PR611	Basic industrial chemicals manufacture	1			30,000
PR612	Hazardous chemicals manufacture	1			2,000
PR614	Plastic products manufacture	1			4,026,000
PR615	Paints, varnishes, lacquers, inks, waxes, adhesives manufacture	1			300
PR617	Petroleum refineries	1			133,000
PR618	Asphalt, coal products manufacture	1			14,198
PR619	Chemicals, petroleum, paints,plastics manufacture - unclassified	1			27,936
PR621	Sawmill, planing mill	84	2		26,124,615
PR622	Wood, cane container, and small wares manufacture	2			11,500
PR624	Furniture, bedding manufacture	6			130,300
PR625	Paper, pulp, paperboard manufacture	6			2,329,000
PR628	Printing, publishing	1	7		5,500
PR629	Wood, furniture, paper, printing manufacturing - unclassified	3			84,225
PR631	Basic iron and steel manufacture	2			8,300
PR632	Basic nonferrous metals manufacture	2			65,500
PR633	Basic metal products manufacturing	8	2		1,278,512
PR634	Machinery manufacture	3			55,000
PR639	Metal, metal products, electrical equip. man. - unclassified	4			106,383
PR641	Slaughtering, preparation, preserving of meat	7			254,400
PR644	Canning, preserving of fish, sea foods	4			34,851
PR645	Grain mill products manufacturing	1			28,997
PR646	Bakery product manufacturing	2			80,000
PR649	Food processing - unclassified	1			1,000
PR653	Breweries	1			300
PR672	Wearing apparel manufacturing	1			260,000
PR673	Textile goods manufacturing	2			1,200
PR677	Rubber, rubber products manufacturing	4			64,772
PR681	Shipbuilding and repairing of vessels over 20m	6			30,744
PR682	Boatbuilding and repairing of vessels 20m and under	6	4		80,500
PR684	Motor vehicle manufacturing and assembly	1			77,179
PR689	Vehicles and related equipment - unclassified	18	3		1,618,517

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
PR696	Laundry and dry cleaning plant	2			2,001,000
PR699	Miscellaneous manufacturing - unclassified	2			31,000
	Industrial Storage Properties				
PR711	Seeds, beans, nuts, grain storage in bulk	4			33,000
PR715	Livestock storage	3			38,500
PR716	Agricultural supply storage	11			186,350
PR719	Agricultural products storage - unclassified	2	1		12,420
PR729	Textiles, fibres, clothing storage - unclassified	1			300
PR731	Packaged foodstuffs storage	1	1		185,000
PR732	Canned, bootle food or soft drinks storage	1			247,000
PR735	Cold storage	2			794
PR741	Flammable liquids tank storage	3			156,500
PR742	Packaged petroleum products storage	1			106,000
PR744	LP gas cylinders storage	3			470
PR749	Flammable liquids, gases, petroleum prod storage - unclassified	3			400
PR751	Lumberyards, building materials storage	2			178,000
PR752	Wood products storage	8			861,350
PR753	Furniture storage	2			4,517,600
PR756	Paper and paper products storage	2			5,000
PR757	Felled timber, log storage	6	3		341,285
PR759	Wood, furniture, paper and products storage - unclassified	4			2,950
PR769	Chemicals, plastics, paints storage - unclassified	1			200
PR773	Hardware stoporage	1			1,400
PR774	Machinery storage	1			350,000
PR775	Electrical applinaces and supplies storage	1			2,135
PR777	Scrap and junkyards	1			36,304
PR779	Metal products, machinery, elecrical appliance storage - unclassified	5			1,017,050
PR781	Garage: Individual residentl parking	135	1		1,215,573
PR782	Garage: General auto parking	17			555,418
PR783	Bus, truck and auto fleets storage	1			50,000
PR784	Heavy machine and equipment storage	3			36,000
PR785	Marinas, boat and ship storage	4	1		33,500
PR788	Fire stations	1			250
PR789	Vehicle storage - unclassified	4			110,319
PR791	General warehouse	11	2		1,541,793
PR795	Glass and glass products storage	1			5,000
PR798	Pier, wharf, storage in open area	1	1		8,000
PR799	Miscellaneous storage properties - unclassified	21			887,422

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
	Outdoor Property, Vehicles				
PR811	Brush, grass and light ground cover	14	1		10,805
PR812	Dumps	2			1,000
PR813	Trees	43			55,300
PR814	Fences, poles, railroad ties	20			25,515
PR815	Trash and rubbish	336			60,805
PR816	Mailboxes	3			325
PR818	Forest, standing timber	2			795
PR819	Outdoor property - unclassified	33	1		209,167
PR821	Bridge, trestle, overpass, elevated road and railway	3			250,500
PR822	Tunnel	1			7,000
PR831	Buildings under construction	4			110,509
PR835	Vacant property	24	4		552,379
PR836	Unoccupied property	4	1		81,000
PR837	Contractors' sheds	1			3,000
PR838	Building under major renovation	1			500
PR839	Under construction or demolition - unclassified	6			65,750
PR841	Motor craft (20m and under loa)	24	4		740,603
PR842	Vessel (under 1,000gt)	1			4,000
PR844	Ship, tanker	1			40,000
PR847	Non self-propelled vessel	1			800
PR848	Commercial fishing vessel	16	3	1	816,200
PR849	Watercraft - unclassified	7	1		38,520
PR852	Railway car: Passenger sleeper	1			200
PR853	Railway car: Freight	1			100
PR854	Locomotive, engine, and other power unit	2			30,300
PR858	Railway yard	1			75,000
PR861	Automobile	2,252	17		6,862,186
PR862	Bus, trackless trolley	16			32,596
PR863	Truck, compressed or lp gas tank	7			51,876
PR864	Truck, flammable liquid,chemical tank	6	2		127,030
PR865	Truck, general	111	2		1,109,435
PR866	Motorcycle	26			39,200
PR867	Wagon, Non-motorized hauling vehicle	4			23,500
PR868	Industrial or commercial trailer	30			606,644
PR869	Ground transport vehicle - unclassified	30			408,665
PR871	Aircraft, private	1			20,000
PR873	Aircraft, commercial passenger	2			76,300
PR875	Helicopter, and vertical take-off aircraft, non military	1			1,100,000
PR881	Construction equipment	16	1		559,554
PR882	Farm tractor and equipment	24			89,457
PR883	Crane, mobile and fixed	1			15,000
PR884	Industrial truck: Fork lift and material handling	12			597,546
PR885	Drilling rig; petroleum, gas only	1			45,000
PR886	Snowmobile	1			8,400
PR889	Special vehicle - unclassified or unknown	35	1		1,184,174
PR891	Pier, wharf	2	2		3,162,090

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
	Miscellaneous Property				
PR911	Laboratory: Chemical, biological and medical	2			1,800
PR912	Laboratory: Physical, material testing hydraulics	1			20,000
PR917	Laboratory: General research	2			700
PR918	Laboratory: Medical	1			230,767
PR921	Poultry, egg production	1			70,168
PR922	Cow and cattle production	6			2,700
PR923	Storage barn	21			1,322,552
PR924	Animal barn, cattel, pigs, horses	10			345,858
PR925	Crops, orchards, straw stacks	3			34,700
PR928	Farm silo	2			9,500
PR929	Farm facility - unclassified	10		1	258,421
PR931	Shed	70	3		789,777
PR932	Privy	3			2,902
PR933	Toll station or booth	1			3,925
PR935	Non-metallic mineral product manufacturing	3			4,550
PR937	Conveyor	2	2		27,000
PR938	Telephone booth	6			4,810
PR939	Miscellaneous outbuildings - unclassified	45	1		262,485
PR941	Electrical light and power generating plant	2			9,800
PR942	Electric light & power distribution system	10			2,030,750
PR945	Heating plant	3			88,320
PR946	Water supply system	3			19,200
PR947	Sanitary service	2			10,400
PR949	Utility - unclassified	10			32,846
PR954	Pottery, china, earthenware manufacturing	1			2,660
PR956	Cement batch mixing plant	1			300
PR958	Shelter: Storm, weather, bomb, fallout	1			245,000
PR959	Cement, glass, pottery manufacturing - unclassified	2			43,500
PR961	Coal mine	1			5,000
PR965	Stone, slate, clay, gravel, sand, quarry or pit	2			14,347
PR977	Lighthouse, light station	1			500
PR996	Groundskeeping equipment	2			4,800
	TOTALS	**7,280**	**387**	**58**	**181,071,119**
SD	**Smoke Detector Alarm Operation**				
SD000	No smoke alarm installed	1,849	197	22	88,543,890
SD001	Alarm activated - assisted occupants in evacuating	308	44	6	9,568,665
SD002	Alarm activated - inaudible	9			1,323,252
SD003	Alarm activated - occupants unable to respond	14	3		629,897
					0

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
SD004	Alarm activated - unnecessary to evacuate	201	14		3,131,588
SD005	Alarm activated - occupant action unknown	71	8	4	1,534,556
SD006	Alarm not activated - unsuitable location	73	1		981,762
SD007	Alarm not activated - no or dead battery	70	7	10	1,334,890
SD008	Alarm not activated - AC power not connected or off	28	3	1	2,487,338
SD009	Alarm not activated - mechanical failure	16	1		60,138
SD010	Alarm not activated - unknown	336	18	2	8,586,787
SD011	Not applicable eg. outside area	3,294	62	2	44,508,569
SD099	Smoke alarm operation unknown	1,011	32	8	18,379,787
	TOTALS	**7,280**	**387**	**58**	**181,071,119**
SP	**Sprinkler Protection**				
SP000	Sprinkler protection unknown	757	1		3,585,554
SP001	Complete sprinkler protection - supervised or standard watchman	82	7		16,079,387
SP002	Complete sprinkler protection - alarm to fire department	30	2		110,234
SP003	Complete sprinkler protection - unsupervised, local alarms only	131	16		5,183,372
SP004	Partial sprinkler protection - supervised or standard watchman	19	1		390,941
SP005	Partial sprinkler protection - alarm to fire department	29	1		189,673
SP006	Partial sprinkler protection - unsupervised, local alarms only	140	16	1	10,314,841
SP007	No sprinkler protection	3,030	286	55	124,047,882
SP008	Not applicable, eg. vehicle, outside area, etc.	3,052	57	2	20,943,918
SP009	Sprinkler protection - unclassified	10			225,317
	TOTALS	**7,280**	**387**	**58**	**181,071,119**
TI	**Time of Day**				
TI000	Time 0000-0059 hrs	254	12	6	10,004,972
TI001	Time 0100-0159 hrs	284	11	5	23,427,120
TI002	Time 0200-0259 hrs	336	25	8	9,086,521
TI003	Time 0300-0359 hrs	283	12	6	14,807,934
TI004	Time 0400-0459 hrs	194	6	2	5,917,741
TI005	Time 0500-0559 hrs	163	10	5	7,040,066
TI006	Time 0600-0659 hrs	181	15	5	3,468,229
TI007	Time 0700-0759 hrs	173	6	3	3,092,100
TI008	Time 0800-0859 hrs	200	22		2,947,576
TI009	Time 0900-0959 hrs	198	12		3,655,579
TI010	Time 1000-1059 hrs	267	17	1	3,769,457
TI011	Time 1100-1159 hrs	257	12		3,337,102
TI012	Time 1200-1259 hrs	272	10	1	3,820,918
TI013	Time 1300-1359 hrs	337	11	1	4,576,506

CODE	DESCRIPTION		FIRES	INJURED	DEAD	$ LOSS
TI014	Time 1400-1459 hrs		363	24	2	9,108,770
TI015	Time 1500-1559 hrs		381	19		7,641,232
TI016	Time 1600-1659 hrs		408	18	1	6,138,922
TI017	Time 1700-1759 hrs		406	21	1	4,499,109
TI018	Time 1800-1859 hrs		423	36	3	12,957,290
TI019	Time 1900-1959 hrs		357	14		8,133,047
TI020	Time 2000-2059 hrs		352	38		7,895,477
TI021	Time 2100-2159 hrs		329	10		8,164,326
TI022	Time 2200-2259 hrs		283	15	4	7,119,819
TI023	Time 2300-2359 hrs		292	11	3	8,959,247
TI099	Time unknown		287	1		1,502,059
		TOTALS	**7,280**	**387**	**58**	**181,071,119**
WD	**Weekdays**					
WD001	Sunday		1,074	60	13	25,074,764
WD002	Monday		968	44	3	16,541,975
WD003	Tuesday		1,019	49	8	26,081,518
WD004	Wednesday		1,021	50	6	20,506,840
WD005	Thursday		972	52	6	40,865,190
WD006	Friday		1,062	61	15	29,176,960
WD007	Saturday		1,164	71	7	22,823,872
		TOTALS	**7,280**	**387**	**58**	**181,071,119**

Circumstances Contributing to Fire Casualties

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
	Condition of Casualty				
FC010	Condition of casualty unknown	112	130	19	4,969,767
FC011	Asleep at time of fire	42	37	14	3,330,061
FC012	Bedridden or other physical handicap	4	3	1	294,200
FC013	Impairment by alcohol, drugs or medication	27	13	16	1,106,152
FC014	Awake or no physical or mental impairment at time of fire	119	161	3	10,916,619
FC015	Under restraint or detention	1	1		3,500
FC016	Too young to react to fire	2	1	1	38,642
FC017	Mental handicap (senile)	2	1	1	20,403
FC018	Left unattended (infant)	1		2	75,000
FC019	Condition of casualty - unclassified	36	40	1	10,515,355
	Action of Casualty				
FC020	Action of casualty unknown	118	124	34	5,733,447
FC021	Injured while attempting to escape	39	48	4	3,707,027
FC022	Over-exertion or heart attack	1	1		300,000
FC023	Voluntarily entered or remained for rescue purposes	12	15	1	1,597,792
FC024	Voluntarily entered or remained for fire fighting	101	126		16,277,342
FC025	Voluntarily entered or remained to save personal property	11	11		87,208
FC026	Loss of judgement or panic	17	14	4	324,148
FC027	Received delayed warning	12	12	3	419,649
FC028	Did not act	15	7	9	452,577
FC029	Action of casualty - unclassified	29	29	3	3,587,709
	Ignition of Fabric				
FC030	Ignition of clothing or fabric not applicable	264	328	35	21,933,691
FC031	Outer clothing	30	28	5	485,374
FC032	Sleepwear	2	1	3	193,932
FC033	Underclothing	3	1	2	46,300
FC035	Bedding and bed linen	8	5	3	90,729
FC036	Mattress or pillow	5	4	1	219,485
FC037	Upholstered furniture	15	9	8	307,773
FC039	Ignition of clothing or fabrics - unclassified	11	11	1	6,477,803
	Type of Fabric				
FC040	Type of fabric or material not applicable	263	325	34	21,726,217
FC041	Cotton	16	13	5	231,572
FC045	Synthetic fibre	12	10	3	510,760
FC046	Mixture fibres	26	19	10	506,479
FC048	Plastic or plastic foam	4	9		225,329
FC049	Type of fabric or material ignited - unclassified	14	11	6	6,483,430

Circumstances Contributing to Fire Casualties

CODE	DESCRIPTION	FIRES	INJURED	DEAD	$ LOSS
	Cause of Failure to Escape				
FC050	Cause of failure to escape unknown	139	155	29	7,279,605
FC051	Trapped by: Rapid spread of fire/ smoke through vertical openings	13	13	5	782,168
FC052	Trapped by: Rapid spread of fire/ smoke through horizontal openings	22	18	13	1,964,252
FC053	High flame spread of combustible finish of walls, ceilings or floors	8	4	4	489,950
FC055	Falling debris	3	3		1,646,900
FC056	Explosion	21	28	1	197,515
FC057	Exit locked, blocked or obstructed	4	3	2	38,500
FC058	Outdoor fire includes forest, brush	8	8		1,290,825
FC059	Cause of failure to escape - unclassified	127	155	4	18,236,954

SUMMARY OF FIRE LOSSES BY PROPERTY GROUPS, 1989

Property Class. Codes	Property Group	No. of Fires	Per Cent of Total Fires	$ Loss	Per Cent of Total $ Loss	No. Injured	Per Cent of Total Injured	No. Dead	Per Cent of Total Dead
	Assembly								
131-139	Educational	71	1.0	2,687,875	1.5	8	2.1	0	0.0
172-173	Nightclub, tavern	10	0.1	428,233	0.2	0	0.0	0	0.0
171,174,179	Restaurant, eating establishment	78	1.1	3,602,326	2.0	11	2.8	0	0.0
111-129,141-169 181-199	Others	70	1.0	5,602,039	3.1	7	1.8	0	0.0
	Institutional								
221-229	Home for aged	14	0.2	46,025	0.0	0	0.0	0	0.0
231-249	Hospital, day-centre, home	15	0.2	94,075	0.1	2	0.5	0	0.0
211-219,299	Others	12	0.2	165,400	0.1	1	0.3	1	1.7
	Residential								
311-319	One- & two-family dwelling	2,083	28.6	45,522,075	25.1	159	41.1	40	69.0
321-329	Apartment	497	6.8	9,567,940	5.3	62	16.0	7	12.1
331-359	Hotel, motel, rooming house	142	2.0	4,311,113	2.4	17	4.4	3	5.2
361-369	Dormitory	11	0.2	67,270	0.0	0	0.0	0	0.0
371	Mobile home	77	1.1	1,425,976	0.8	9	2.3	3	5.2
373-376	Recreational vehicle	64	0.9	607,569	0.3	7	1.8	2	3.4
372,377-399	Others	57	0.8	559,324	0.3	0	0.0	0	0.0
411-499	**Business and personal service**	82	1.1	10,560,224	5.8	15	3.9	0	0.0
511-599	**Mercantile**	181	2.5	18,896,689	10.4	15	3.9	0	0.0
611-699	**Industrial manufacturing**	186	2.6	38,996,729	21.5	18	4.7	0	0.0
711-799	**Industrial storage**	268	3.7	12,723,283	7.0	9	2.3	1	1.7
	Miscellaneous								
811-829,891	Outdoor property, pier, wharf	459	6.3	3,783,302	2.1	4	1.0	0	0.0
841-849	Watercraft	50	0.7	1,640,123	0.9	8	2.1	1	1.7
851-859	Rail transport and equipment	5	0.1	105,600	0.1	0	0.0	0	0.0
861	Automobile	2,252	30.9	6,862,186	3.8	17	4.4	0	0.0
862-869,881-889	Other grd transport & special vehicle	320	4.4	4,898,077	2.7	6	1.6	0	0.0
871-879	Aircraft	4	0.1	1,196,300	0.7	0	0.0	0	0.0
831-839,899 911-999	Remainder	272	3.7	6,721,366	3.7	12	3.1	0	0.0
	TOTALS	**7,280**	**100.0**	**181,071,119**	**100.0**	**387**	**100.0**	**58**	**100.0**

ARSON LOSSES BY PROPERTY GROUP, 1989

Property Class. Codes	Property Group	No. of Arson Fires		Incidence of Arson within Prop. Group (%)	% of ALL Arson Fires in B.C.	Dollar Loss		% of TOTAL $ Loss
		1988	1989	1989	1989	1988	1989	1989
	Assembly							
131-139	Educational	52	38	53.5	2.7	2,223,263	349,027	1.5
172-173	Nightclub, tavern	0	3	30.0	0.2	30,600	0	0.0
171,174,179	Restaurant, eating establishment	28	16	20.5	1.1	1,348,239	1,649,500	6.9
000-129,141-169 181-199	Others	26	35	50.0	2.5	782,843	652,776	2.7
	Institutional							
221-229	Home for aged	1	1	7.1	0.1	25,000	130,000	0.5
231-249	Hospital, day-centre, home	8	3	20.0	0.2	4,200	64,163	0.3
211-219,299	Others	9	3	25.0	0.2	130,050	24,359	0.1
	Residential							
311-319	One- & two-family dwelling	177	224	10.8	15.9	5,628,705	4,449,072	18.7
321-329	Apartment	96	96	19.3	6.8	1,813,969	3,583,925	15.1
331-359	Hotel, motel, rooming house	29	32	22.5	2.3	630,447	570,054	2.4
361-369	Dormitory, bunkhouse	0	4	36.4	0.3	9,000	0	0.0
371	Mobile home, mobile camp	6	8	10.4	0.6	94,604	115,616	0.5
373-376	Recreational vehicle	14	9	14.1	0.6	56,679	74,087	0.3
372,377-399	Others	6	11	19.3	0.8	40,050	30,934	0.1
411-499	**Business and personal service**	24	27	32.9	1.9	1,170,455	1,648,260	6.9
511-599	**Mercantile**	54	54	29.8	3.8	1,704,907	1,417,003	6.0
611-699	**Industrial manufacturing**	10	26	14.0	1.8	2,684,968	1,634,078	6.9
711-799	**Industrial storage**	118	104	38.8	7.4	6,473,359	3,883,738	16.3
	Miscellaneous							
811-829,891	Outdoor property, pier, wharf	169	205	44.7	14.5	388,102	177,768	0.7
841-849	Watercraft	3	9	18.0	0.6	336,300	8,100	0.0
851-859	Rail transport and equipment	3	0	0.0	0.0	0	24,500	0.1
861	Automobile	345	388	17.2	27.5	1,779,084	1,478,896	6.2
862-869,881-889	Other grd transport & special vehicle	59	31	9.7	2.2	230,660	442,647	1.9
871-879	Aircraft	0	0	0.0	0.0	0	0	0.0
831-839,899 911-999	Remainder	82	86	31.6	6.1	1,236,300	1,393,852	5.9
	TOTALS	**1,319**	**1,413**		**100.0**	**28,821,784**	**23,802,355**	**100.0**

FIRES WITH LOSS OF $500,000 OR MORE

DATE	LOCATION	PROPERTY CLASSIFICATION	ACT OR OMISSION	LOSS	INJ	DEAD
890308	Castlegar	Paper, pulp, paperboard manufacture	Mechanical failure - unclassified	2,100,000	0	0
890319	Kelowna	Electronic equipment - unclassified	Act or omission unknown	936,250	0	0
890419	Kelowna	Hotel, inn, lodge - unclassified	Arson or set fire - cover-up crime	500,000	0	0
890518	Kelowna	Trade supply sales	Act or omission unknown	5,934,533	1	0
890128	Port Moody	Metal products, appliance storage	Act or omission unknown	1,015,000	0	0
890726	Prince Rupert	Miscellaneous storage properties	Act or omission unknown	523,675	0	0
891104	Prince Rupert	Hotel, inn, lodge - year-round use	Asleep - susp. use of drugs	987,000	5	0
891227	Prince Rupert	Miscellaneous mercantile - unclassified	Act or omission unknown	1,258,000	0	0
890107	Vancouver	Restaurant	Suspected set fire - motive unknown	716,000	1	0
890410	Vancouver	Apartment, 1-2 units with business	Act or omission unknown	773,000	0	0
890424	Vancouver	Restaurant	Act or omission unknown	868,150	0	0
890608	Vancouver	Furniture storage	Suspected set fire - motive unknown	2,701,000	0	0
890620	Vancouver	Furniture storage	Arson or set fire - motive unknown	1,816,600	0	0
890704	Vancouver	Miscellanous mercantile - unclassified	Act or omission unknown	1,583,100	0	0
891015	Vancouver	Church, chapel	Act or omission unknown	1,000,000	0	0
891031	Vancouver	Helicopter	Act or omission unknown	1,100,000	0	0
891221	Vancouver	Basic metal products manufacturing	Act or omission unknown	985,000	0	0
890608	Abbotsford	Sawmill, planing mill	Suspected set fire - motive unknown	519,895	0	0
890903	Burnaby	Elementary school	Arson or set fire - motive unknown	1,300,900	1	0
890819	Chilliwack	Storage barn	Act or omission unknown	501,000	0	0
890216	Delta	Sawmill, planing mill	Act or omission unknown	15,000,000	0	0
890808	Delta	Sawmill, planing mill	Act or omission unknown	500,000	0	0
891108	Houston	Vehicles and rel. equip. - unclassified	Rail vehicle accident	1,200,000	0	0
890109	Kitimat	Motor vehicle repairs	Mechanical failure - unclassified	749,975	0	0
890119	Langley	Medical, research or scientific office	Misc. act or omission - unclassfied	1,049,524	5	0
890214	Sechelt	General business office	Arson or set fire - cover-up crime	635,000	0	0
890222	Surrey	Shopping mall - public areas	Act or omission unknown	1,455,600	0	0

DATE	LOCATION	PROPERTY CLASSIFICATION	ACT OR OMISSION	LOSS	INJ	DEAD
890303	Richmond	Plastic products manufacture	Act or omission unknown	4,026,000	0	0
890314	Thompson-Nicola R.D.	Electric light and power distribution sys.	Part failure, leak, break	2,000,000	0	0
890318	Saanich	Laundry and dry cleaning plant	Act or omission unknown	2,000,000	0	0
890425	Maple Ridge	Sawmill, planing mill	Inadequate control or "open" fire	1,276,725	1	0
890428	Squamish	Hotel, motel: over 20 units	Distracted, preoccupied	713,000	0	0
890430	North Vancouver	Apartment, townhouse: over 20 units	Part failure, leak, break	1,390,918	0	0
890520	Surrey	Sawmill, planing mill	Construction deficiency	3,012,941	0	0
890605	McBride	Sawmill, planing mill	Arson or set fire - motive unknown	1,333,000	0	0
890707	Surrey	Wood products storage	Act or omission unknown	695,000	0	0
890725	Zeballos	Pier, wharf	Act or omission unknown	3,162,000	2	0
890818	Comox-Strathcona R.D.	Commercial fishing vessel	Act or omission unknown	500,000	0	0
890824	Surrey	General warehouse	Arson or set fire - motive unknown	732,500	0	0
890827	Moricetown	Sawmill, planing mill	Act or omission unknown	500,000	0	0
890901	Burns Lake	Civic, fed. or prov. gov't. office	Misc. act or omission unclassified	6,830,000	0	0
890909	Saanich	Apartment: 3-20 units with business	Suspected set fire - motive unknown	600,000	1	0
890928	Cariboo R.D.	Sawmill, planing mill	Welding or cutting too close	600,000	0	0
891110	Stikine Region R.D.	Maintenance shop, general	Act or omission unknown	900,000	0	0
891203	Saanich	Library	Act or omission unknown	3,200,000	1	0
891209	Sproat Lake	Dwelling, year-round use (1 family)	Act or omission unknown	900,000	0	0

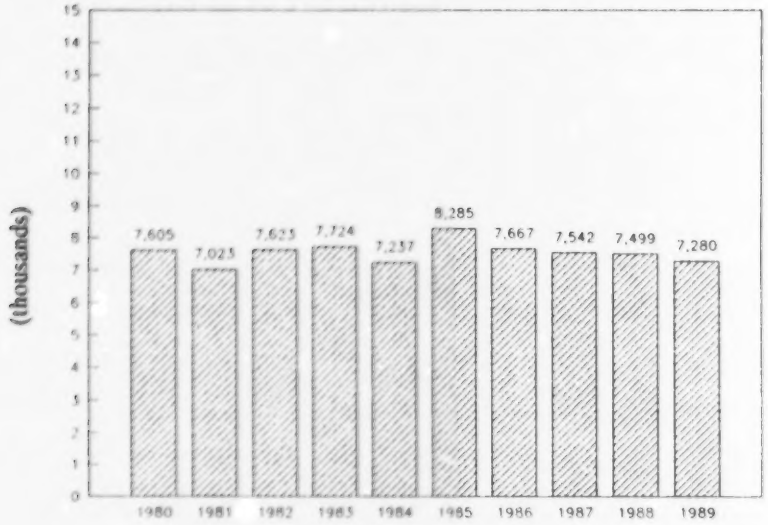
10-YEAR PROPERTY FIRE LOSS COMPARISON, 1980 - 1989

	1980	1981	1982	1983	1984	1985	1986	1987	1988	1989
No. of Fires	7,605	7,023	7,623	7,724	7,237	8,285	7,667	7,542	7,499	7,280
Dollar Loss	$108,664,176	$115,709,786	$157,296,688	$131,659,496	$108,859,185	$131,932,474	$109,834,964	$117,159,528	$119,633,561	$181,071,119
Loss per Fire	$14,289	$16,476	$20,634	$17,046	$15,042	$15,924	$14,326	$15,534	$15,953	$24,872
Population (thousands)*	2,636.0	2,744.0	2,783.0	2,823.9	2,870.7	2,892.5	2,889.2	2,925.7	2,983.8	3,055.6
No. of Fires/1000 Persons	2.89	2.56	2.74	2.74	2.52	2.86	2.65	2.58	2.51	2.38
Per Capita Loss	$41.22	$42.17	$56.52	$46.62	$37.92	$45.61	$38.02	$40.04	$40.09	$59.26
CPI Adjustment Factor#	0.875	1.000	1.105	1.166	1.213	1.252	1.293	1.333	1.360	1.435
Loss Adjusted by CPI	$124,187,630	$115,709,786	$142,349,944	$112,915,520	$89,743,763	$105,377,375	$84,945,834	$87,891,619	$87,965,854	$126,181,964
Loss/Fire adj. by CPI	$16,330	$16,476	$18,674	$14,619	$12,401	$12,719	$11,079	$11,654	$11,730	$17,332
Per Capita Loss adjusted by CPI	$47.11	$42.17	$51.15	$39.99	$31.26	$36.43	$29.40	$30.04	$29.48	$41.30
Persons Injured	308	244	375	404	396	398	343	398	380	387
Fire Deaths	77	76	73	83	79	60	58	42	59	58
Deaths/100,000 Persons	2.92	2.77	2.62	2.94	2.75	2.07	2.01	1.44	1.98	1.90

* Population statistics were provided by Statistics Canada. The figures for 1981 and 1986 are actual census figures. The others are estimates by Statistics Canada.

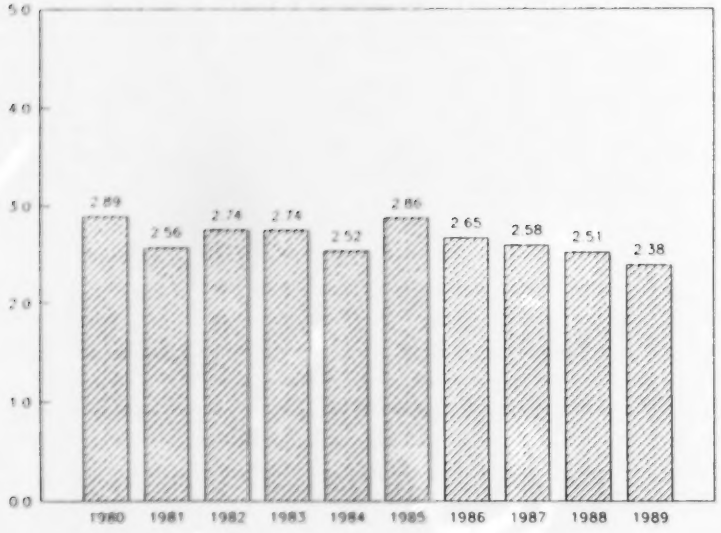
Adjustment Factor. In an effort to get a more realistic picture of losses over the years, some form of adjustment factor was neccessary to take inflation into account. We chose the Consumer Price Index for Vancouver with 1981 = 1.000.

Number of Fire Fatalities

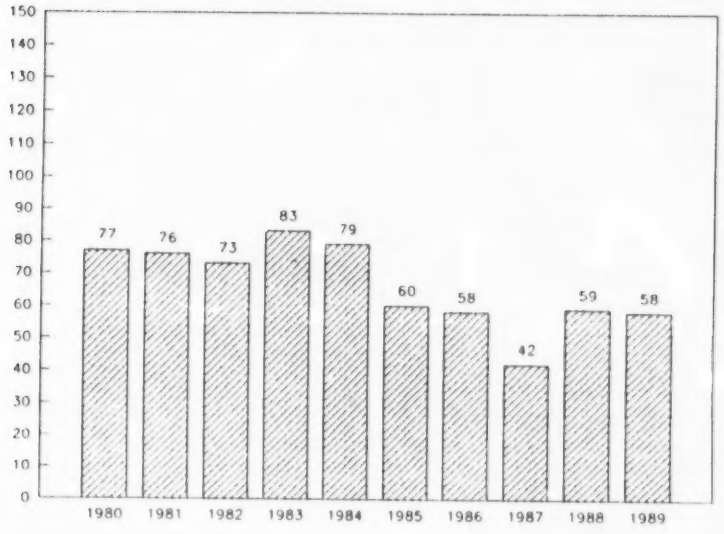


Actual & Adjusted Dollar Losses

($ in millions)

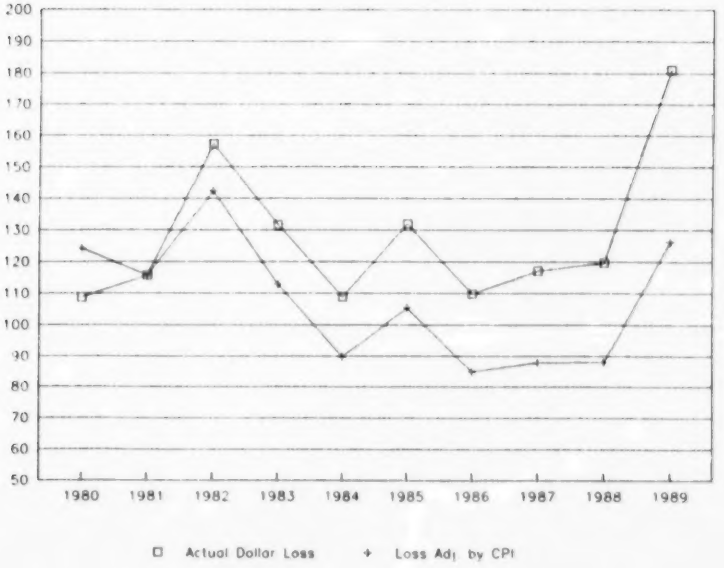


Number of Fire Fatalities



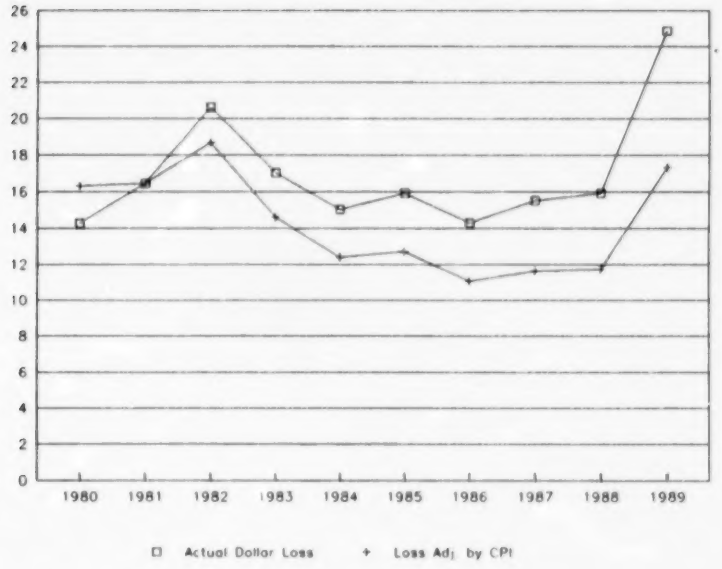
Actual & Adjusted Dollar Losses

($ in millions)



Actual & Adjusted Dollar Loss Per Fire

($ in thousands)



Actual & Adjusted Per Capita Dollar Loss